IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

NEW APPLICATION TRANSMITTAL

Transmitted herewith for filing is the patent application of

Inventor(s):

Hiroshi KIDA

WARNING: 37 C.F.R. § 1.41(a)(1) points out:

"(a) A patent is applied for in the name or names of the actual inventor or inventors.

(1) The inventorship of a nonprovisional application is that inventorship set forth in the oath or declaration as prescribed by § 1.63, except as provided for in § 1.53(d)(4) and § 1.63(d). If an oath or declaration as prescribed by § 1.63 is not filed during the pendency of a nonprovisional application, the inventorship is that inventorship set forth in the application papers filed pursuant to § 1.53(b), unless a petition under this paragraph accompanied by the fee set forth in § 1.17(i) is filed supplying or changing the name or names of the inventor or inventors."

For (title): IMAGE FORMING SYSTEM AND IMAGE FORMING APPARATUS

Type of Application 1.

This new application is for a(n) (check one applicable item below)

> Original (nonprovisional) [X]

CERTIFICATION UNDER 37 C.F.R. 1.10*

(Express Mail label number is mandatory.) (Express Mail certification is optional.)

I hereby certify that this correspondence and the documents referred to as attached therein are being deposited with the United States Postal Service on this date October 10, 2003, in an envelope as "Express Mail Post Office to Addressee," mailing Label Number EV 343731221 US addressed to the: Assistant Commissioner for Patents, Washington, D.C. 20231.

William J. Daley, Jr.

WARNING:

Certificate of mailing (first class) or facsimile transmission procedures of 37 C.F.R. 1.8 cannot be used to

obtain a date of mailing or transmission for this correspondence.

*WARNING:

Each paper or fee filed by "Express Mail" must have the number of the "Express Mail" mailing label

placed thereon prior to mailing. 37 C.F.R. 1.10(b).

"Since the filing of correspondence under § 1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will not be granted on petition." Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 56,442.

	[]	Plant Plant
WARNII		Do not use this transmittal for a completion in the U.S. of an International Application under 35 U.S.C., unless the International Application is being filed as a divisional, continuation or continuation-in-part on.
WARNII	VG:	Do not use this transmittal for the filing of a provisional application.
NOTE:	TRANSM	the following 3 items apply, then complete and attach ADDED PAGES FOR NEW APPLICATION ITTAL WHERE BENEFIT OF A PRIOR U.S. APPLICATION CLAIMED and a NOTIFICATION IN PARENT ATION OF THE FILING OF THIS CONTINUATION APPLICATION.
	[] []	Divisional. Continuation. Continuation-in-part (C-I-P).

2. Benefit of Prior U.S. Application(s) (35 U.S.C. 119(e), 120, or 121)

NOTE: A nonprovisional application may claim an invention disclosed in one or more prior filed copending nonprovisional applications or copending international applications designating the United States of America. In order for a nonprovisional application to claim the benefit of a prior filed copending nonprovisional application or copending international application designating the United States of America, each prior application must name as an inventor at least one inventor named in the later filed nonprovisional application and disclose the named inventor's invention claimed in at least one claim of the later filed nonprovisional application in the manner provided by the first paragraph of 35 U.S.C. 112. Each prior application must also be:

- (i) An international application entitled to a filing date in accordance with PCT Article 11 and designating the United States of America; or
- (ii) Complete as set forth in § 1.51(b); or
- (iii) Entitled to a filing date as set forth in § 1.53(b) or § 1.53(d) and include the basic filing fee set forth in § 1.16; or
- (iv) Entitled to a filing date as set forth in \S 1.53(b) and have paid therein the processing and retention fee set forth in \S 1.21(l) within the time period set forth in \S 1.53(f).

37 C.F.R. § 1.78(a)(1).

NOTE If the new application being transmitted is a divisional, continuation or a continuation-in-part of a parent case, or where the parent case is an International Application which designated the U.S., or benefit of a prior provisional application is claimed, then check the following item and complete and attach ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

WARNII	or 365(c) the appl account, 365(a) of supporte filed app	If an application claims the benefit of the filing date of an earlier filed application under 35 U.S.C. 120, 121, the 20-year term of that application will be based upon the filing date of the earliest U.S. application that ication makes reference to under 35 U.S.C. 120, 121 or 365(c). (35 U.S.C. 154(a)(2) does not take into for the determination of the patent term, any application on which priority is claimed under 35 U.S.C. 119, or 365(b).) For a c-i-p application, applicant should review whether any claim in the patent that will issue is ged by an earlier application and, if not, the applicant should consider canceling the reference to the earlier polication. The term of a patent is not based on a claim-by-claim approach. See Notice of April 14, 1995, 60 g. 20,195, at 20,205.
WARNIN	within th	When the last day of pendency of a provisional application falls on a Saturday, Sunday, or Federal holiday the District of Columbia, any nonprovisional application claiming benefit of the provisional application must prior to the Saturday, Sunday, or Federal holiday within the District of Columbia. See 37 C.F.R. § 1.78(a)(3).
	[]	The new application being transmitted claims the benefit of prior U.S. application(s). Enclosed are ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.
3.	Paper	s Enclosed
	Α.	Required for Filing Date under 37 C.F.R. § 1.53(b) (Regular) or 37 C.F.R. § 1.153 (Design) Application
		51 Pages of Specification7 Pages of Claims13 Sheets of Drawing1 Page Abstract
WARNIN	VG:	DO NOT submit original drawings. A high quality copy of the drawings should be supplied when filing a

WARNING: DO NOT submit original drawings. A high quality copy of the drawings should be supplied when filing a patent application. The drawings that are submitted to the Office must be on strong, white, smooth, and non-shiny paper and meet the standards according to § 1.84. If corrections to the drawings are necessary, they should be made to the original drawing and a high-quality copy of the corrected original drawing then submitted to the Office. Only one copy is required or desired. For comments on proposed then-new 37 C.F.R. 1.84, see Notice of March 9, 1988. (1990 O.G. 57-62).

NOTE: "Identifying indicia, if provided, should include the application number or the title of the invention, inventor's name, docket number (if any), and the name and telephone number of a person to call if the Office is unable to match the drawings to the proper application. This information should be placed on the back of each sheet of drawing a minimum distance of 1.5 cm. (5/8 inch) down from the top of the page. . ." 37 C.F.R. § 1.84(c)).

(complete the following, if applicable)

[]	The enclosed drawing(s) are photograph(s), and there is also attached a "PETITION TO ACCEPT PHOTOGRAPH(S) AS DRAWING(S)." 37 C.F.R. § 1.84(b).
[] [X]	Formal Informal

WARNI	or 365(c) the appliaccount, 365(a) o supporte filed app	If an application claims the benefit of the filing date of an earlier filed application under 35 U.S.C. 120, 121), the 20-year term of that application will be based upon the filing date of the earliest U.S. application that ication makes reference to under 35 U.S.C. 120, 121 or 365(c). (35 U.S.C. 154(a)(2) does not take into for the determination of the patent term, any application on which priority is claimed under 35 U.S.C. 119, r 365(b).) For a c-i-p application, applicant should review whether any claim in the patent that will issue is a d by an earlier application and, if not, the applicant should consider canceling the reference to the earlier dication. The term of a patent is not based on a claim-by-claim approach. See Notice of April 14, 1995, 60 g. 20,195, at 20,205.
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	[]	The new application being transmitted claims the benefit of prior U.S. application(s). Enclosed are ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.
3.	Papers	Enclosed
	A.	Required for Filing Date under 37 C.F.R. § 1.53(b) (Regular) or 37 C.F.R. § 1.153 (Design) Application
		51 Pages of Specification

WARNING: DO NOT submit original drawings. A high quality copy of the drawings should be supplied when filing a patent application. The drawings that are submitted to the Office must be on strong, white, smooth, and non-shiny paper and meet the standards according to § 1.84. If corrections to the drawings are necessary, they should be made to the original drawing and a high-quality copy of the corrected original drawing then submitted to the Office. Only one copy is required or desired. For comments on proposed then-new 37 C.F.R. 1.84, see Notice of March 9, 1988. (1990 O.G. 57-62).

7 Pages of Claims13 Sheets of Drawing1 Page Abstract

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(complete the following, if applicable)

[]	The enclosed drawing(s) are photograph(s), and there is also attached a "PETITION TO ACCEPT PHOTOGRAPH(S) AS DRAWING(S)." 37 C.F.R. § 1.84(b).
[X]	Formal
[]	Informal

B. Other Papers Enclosed

4. Additio	nal Papers	Enclosed
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	Ame	ndment to claims	
	[]	Cancel in this applications claims	-
		filing fee. (At least one original independent claim n purposes.)	nust be retained for filing
	[]	Add the claims shown on the attached amendment. (On numbered consecutively following the highest number	
[]	Preli	minary Amendment	
[X]	Infor	mation Disclosure Statement (37 C.F.R. § 1.98)	
[X]	Form	n PTO-1449 (PTO/SB/08A and 08B)	
[X]	Citat	ions (two)	
	Decla	aration of Biological Deposit	
ĺ		nission of "Sequence Listing," computer readable copy as ining thereto for biotechnology invention containing nuc- ence.	
[]	Auth	orization of Attorney(s) to Accept and Follow Instruction	ns from Representative
[]	Speci	ial Comments	-
[]	Other	r	

5. Declaration or Oath (including power of attorney)

NOTE: A newly executed declaration is not required in a continuation or divisional application provided the prior nonprovisional application contained a declaration as required, the application being filed is by all or fewer than all the inventors named in the prior application, there is no new matter in the application being filed, and a copy of the executed declaration filed in the prior application (showing the signature or an indication thereon that it was signed) is submitted. The copy must be accompanied by a statement requesting deletion of the names of person(s) who are not inventors of the application being filed. If the declaration in the prior application was filed under § 1.47 then a copy of that declaration must be filed accompanied by a copy of the decision granting § 1.47 status or, if a nonsigning person under § 1.47 has subsequently joined in a prior application, then a copy of the subsequently executed declaration must be filed. See 37 C.F.R. § 1.63(d)(1)-(3).

NOTE:	identify together	each inven with anv c	tor by full other giver	the an application must be executed, identify the specification to which it is directed, name, including the family name, and at least one given name without abbreviation name or initial, and the residence, post office address and country of citizenship of each the inventor is a sole or joint inventor. 37 C.F.R. § 1.63(a)(1)-(4).	
	[]	Enclose	ed		
		Execut	ed by		
				(check all applicable boxes)	
		[]	joint in	epresentative of inventor(s). 37 C.F.R. § 1.42 or 1.43. eventor or person showing a proprietary interest on behalf of inventor who I to sign or cannot be reached. This is the petition required by 37 C.F.R. § 1.47 and the statement required by 37 C.F.R. § 1.47 is also attached. See item 13 below for fee.	
	[X]	Not En	iclosed.	required by 37 C.P.R. § 1.47 is also attached. See item 15 colon for 164	
NOTE:	Where tapplica	tion contai ation or co	ns subject intinuation	tion in the U.S. of an International Application, or where the completion of the U.S. matter in addition to the International Application, the application may be treated as a at-in-part, as the case may be, utilizing ADDED PAGE FOR NEW APPLICATION ENERGY OF PRIOR U.S. APPLICATION CLAIMED.	
		[]		ation is made by a person authorized under 37 C.F.R. 1.41(c) on behalf of above named inventor(s).	
	(The declaration or oath, along with the surcharge required by 37 C.F.R. § 1.16(e), can be filed subsequently).				
			[]	Showing that the filing is authorized. (not required unless called into question. 37 C.F.R. § 1.41(d))	

6. Inventorship Statement

WARNING: If the named inventors are each not the inventors of all the claims an explanation, including the ownership of the various claims at the time the last claimed invention was made, should be submitted.

The inventorship for all the claims in this application are:

	[X]	The sa	me.			
			or			
	[]		e same. An explanation, including the ownership of the various claims at the time claimed invention was made, is submitted. will be submitted.			
7.	Langu	age				
NOTE:	An application including a signed oath or declaration may be filed in a language other than English. An English translation of the non-English language application and the processing fee of \$130.00 required by 37 C.F.R. § 1.17(k) is required to be filed with the application, or within such time as may be set by the Office. 37 C.F.R. § 1.52(d).					
	[X] []	English Non-E				
		[]	The attached translation includes a statement that the translation is accurate. 37 C.F.R. § 1.52(d).			
8.	Assign	ment				
	[X]	An assi	ignment of the invention to Sharp Kabushiki Kaisha			
		[]	is attached. A separate [] "COVER SHEET FOR ASSIGNMENT (DOCUMENT) ACCOMPANYING NEW PATENT APPLICATION" or [] FORM PTO 1595 is also attached.			
		[X]	will follow.			

NOTE: "If an assignment is submitted with a new application, send two separate letters-one for the application and one for the assignment" Notice of May 4, 1990 (1114 O.G. 77-78).

WARNING: A newly executed "STATEMENT UNDER 37 C.F.R. § 3.73(b)" must be filed when a continuation-in-part application is filed by an assignee. Notice of April 30, 1993, 1150 O.G. 62-64.

9. Certified Copy

Certified copy(ies) of application(s)

lanan	2002-299564	October 11, 2002
Country	Appln. no.	Filed
from which priority is claimed		

[X] is attached.[] will follow.

NOTE: The foreign application forming the basis for the claim for priority must be referred to in the oath or declaration. 37 C.F.R. § 1.55(a) and 1.63.

NOTE: This item is for any foreign priority for which the application being filed directly relates. If any parent U.S. application or International Application from which this application claims benefit under 35 U.S.C. 120 is itself entitled to priority from a prior foreign application, then complete item 18 on the ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

10. Fee Calculation (37 C.F.R. § 1.16)

A. [X] Regular application

		CLAIM	S AS FILED		
Claims	Number Filed	Basic Fee Allowance	Number Extra	Rate	Basic Fee 37 C.F.R. § 1.16(a) \$770.00
Total Claims (37 C.F.R. § 1.16(c))	19	20	\$ 18.00 = \$0.00		
Independent Clair (37 C.F.R. § 1.16(b))	ms 3	- 3 =		\$ 86.00 = \$0.00	
Multiple Depende Claim(s), if any (37 C.F.R. § 1.16(d))	ent 0			\$290.00 = \$0.00	

[]	Amendment cancelling extra claims is enclosed.
[]	Amendment deleting multiple-dependencies is enclosed.

Amendment deleting multiple-dependencies is end Fee for extra claims is not being paid at this time.

NOTE:	If the fees for extra claims are not paid on filing they must be paid or the claims cancelled by amendment, prior to expiration of the time period set for response by the Patent and Trademark Office in any notice of fee deficiency. 37 C. § 1.16(d).			
		Filing Fee Calculation \$		
	В.	[] Design application (\$310.00—37 C.F.R. § 1.16(f))		
		Filing Fee Calculation \$		
	C.	[] Plant application (\$480.00—37 C.F.R. § 1.16(g))		
		Filing Fee Calculation \$		
11.	Small	Entity Statement(s)		
	[] Statement(s) that this is a filing by a small entity under 37 C.F.R. §§ 1.9 and attached.			
	available and desired. Status as a small entity in one application or patent does not affect any other application or patent, including applications or patents which are directly or indirectly dependent upon the application or patent in which the status has been established. The refiling of an application under § 1.53 as a continuation, division, or continuation-in-part (including a continued prosecution application under § 1.53(d)), or the filing of a reissue application requires a new determination as to continued entitlement to small entity status for the continuing or reissue application. A nonprovisional application claiming benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) of a prior application, or a reissue application may rely on a statement filed in the prior application or in the patent if the nonprovisional application or the reissue application includes a reference to the statement in the prior application or in the patent or includes a copy of the statement in the prior application or in the patent and status as a small entity is still proper and desired. The payment of the small entity basic statutory filing fee will be treated as such a reference for purposes of this section." 37 C.F.R. § 1.28(a)(2).			
		(complete the following, if applicable)		
		Status as a small entity was claimed in prior application		
		35 U.S.C. § [] 119(e), [] 120, [] 121, [] 365(c),		
	and which status as a small entity is still proper and desired.			
		[] A copy of the statement in the prior application is included.		
	Filing Fee Calculation (50% of A , B or C above) \$			

NOTE: Any excess of the full fee paid will be refunded if a small entity status is established refund request are filed within 2 months

Request for International-Type Search (37 C.F.R. § 1.104(d)) 12. (complete, if applicable) [] Please prepare an international-type search report for this application at the time when national examination on the merits takes place. 13. Fee Payment Being Made at This Time Not Enclosed [X] [X]No filing fee is to be paid at this time. (This and the surcharge required by 37 C.F.R. § 1.16(e) can be paid subsequently.) **Enclosed** []Filing fee \$ [] []Recording assignment (\$40.00; 37 C.F.R. § 1.21(h)) (See attached "COVER SHEET FOR ASSIGNMENT ACCOMPANYING NEW \$ APPLICATION.") [] Petition fee for filing by other than all the inventors or person on behalf of the inventor where inventor refused to sign or cannot be reached (\$130.00; 37 C.F.R. §§ 1.47 and 1.17(i)) \$ [] For processing an application with a specification in a non-English language \$ (\$130.00; 37 C.F.R. §§ 1.52(d) and 1.17(k)) [] Processing and retention fee (\$130.00; 37 C.F.R. §§ 1.53(d) and 1.21(l)) \$ [] Fee for international-type search report

NOTE: 37 C.F.R. § 1.21(1) establishes a fee for processing and retaining any application that is abandoned for failing to complete the application pursuant to 37 C.F.R. § 1.53(f) and this, as well as the changes to 37 C.F.R. § 1.53 and 1.78(a)(1), indicate that in order to obtain the benefit of a prior U.S. application, either the basic filing fee must be paid, or the processing and retention fee of § 1.21(1) must be paid, within 1 year from notification under § 53(f).

(\$40.00; 37 C.F.R. § 1.21(e))

\$

14.	Method of Payment of Fees					
	[]	Check i	n the amount of \$			
	[]	_	Account No in the amount of \$ cate of this transmittal is attached.			
NOTE:	Fees show	ld be itemized in such a manner that it is clear for which purpose the fees are paid. 37 C.F.R. § 1.22(b).				
15.	Author	ization to Charge Additional Fees				
WARNING:		If no fees are to be paid on filing, the following items should not be completed.				
WARNI	RNING: Accurately count claims, especially multiple de charges are authorized.		ly count claims, especially multiple dependent claims, to avoid unexpected high charges, if extra claim zed.			
	[]	The Commissioner is hereby authorized to charge the following additional fees by this paper and during the entire pendency of this application to Account No. 04-1105.				
		[]	37 C.F.R. § 1.16(a), (f) or (g) (filing fees)			
		[]	37 C.F.R. § 1.16(b), (c) and (d) (presentation of extra claims)			
NOTE:	paid or the	cause additional fees for excess or multiple dependent claims not paid on filing or on later presentation must only be id or these claims cancelled by amendment prior to the expiration of the time period set for response by the PTO in any tice of fee deficiency (37 C.F.R. § 1.16(d)), it might be best not to authorize the PTO to charge additional claim fees, cept possibly when dealing with amendments after final action.				
		[]	37 C.F.R. § 1.16(e) (surcharge for filing the basic filing fee and/or declaration on a date later than the filing date of the application)			
		[]	37 C.F.R. § 1.17(a)(1)-(5) (extension fees pursuant to § 1.136(a).			
		[]	37 C.F.R. § 1.17 (application processing fees)			
NOTE:	"A written request may be submitted in an application that is an authorization to treat any concurrent or future reply, requiring a petition for an extension of time under this paragraph for its timely submission, as incorporating a petition for extension of time for the appropriate length of time. An authorization to charge all required fees, fees under § 1.17, or all required extension of time fees will be treated as a constructive petition for an extension of time in any concurrent or future reply requiring a petition for an extension of time under this paragraph for its timely submission. Submission of the fee set forth in § 1.17(a) will also be treated as a constructive petition for an extension of time in any concurrent reply requiring a petition for an extension of time under this paragraph for its timely submission." 37 C.F.R. § 1.136(a)(3).					
		[]	37 C.F.R. § 1.18 (issue fee at or before mailing of Notice of Allowance, pursuant to 37 C.F.R. § 1.311(b))			

NOTE: Where an authorization to charge the issue fee to a deposit account has been filed before the mailing of a Notice of Allowance, the issue fee will be automatically charged to the deposit account at the time of mailing the notice of allowance.

37 C.F.R. § 1.311(b)).

NOTE: 37 C.F.R. § 1.28(b) requires "Notification of any change in status resulting in loss of entitlement to small entity status must be filed in the application . . . prior to paying, or at the time of paying, . . issue fee." From the wording of 37 C.F.R. § 1.28(b), (a) notification of change of status must be made even if the fee is paid as "other than a small entity" and (b) no notification is required if the change is to another small entity.

16. Instructions as to Overpayment

NOTE: "... Amounts of twenty-five dollars or less will not be returned unless specifically requested within a reasonable time, nor will the payer be notified of such amounts; amounts over twenty-five dollars may be returned by check or, if requested, by credit to a deposit account." 37 C.F.R. § 1.26(a).

Credit Account No. ___04-1105__.

[] Refund

SIGNATURE OF PRACTITIONER
William J. Daley, Jr. (Reg. No: 35,487)

EDWARDS & ANGELL, LLP

PO BOX 9169 Boston, MA 02209 Tel. No. (617) 439-4444

Date: October 10, 2003

Customer No. 21874

BOS2_351236.1